

Key Site
JUNEAU

Surveillance

ADS-B

AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST

Air Traffic Control

Traffic Information

Flight Information

Juneau

Service Volume and Anchorage Center Service Delivery Point

Infrastructure <ul style="list-style-type: none">• 4 ADS-B radio stations for low en route coverage• Wide Area Multilateration	Service Volumes <ul style="list-style-type: none">• Floor: 500 ft. mean sea level• Ceiling: 13,000 ft. mean sea level
Services <ul style="list-style-type: none">• Air traffic control separation services<ul style="list-style-type: none">– ADS-B / ADS-R– Wide Area Multilateration• Traffic Information Broadcast Services (TIS-B)<ul style="list-style-type: none">• TIS-B source: Wide Area Multilateration• Flight Information Broadcast Services (FIS-B) Interface Protocols <ul style="list-style-type: none">• Asterix Category 33 for position data reports and Asterix Category 023 service status reports	Service Delivery Point (SDP) <ul style="list-style-type: none">• Primary service delivery point: MEARTS automation system at Anchorage Center• Other service delivery point<ul style="list-style-type: none">– Juneau Air Traffic Control Tower– Surveillance and Broadcast Services monitor receives service status reports and equipment status reports, as well as ADS-B, TIS-B and FIS-B data– FAA monitoring at the William J. Hughes Technical Center and the Aeronautical Center– Service certification is at the service delivery point for each automation platform• Delivery of TIS-B and FIS-B to aircraft equipped with ADS-B avionics and a multi-function display• Aircraft receiving TIS-B must be equipped with ADS-B 'Out' and 'In'; FIS-B requires ADS-B 'In' only
Applications <ul style="list-style-type: none">• Air traffic control surveillance• Enhanced visual acquisition• Enhanced visual approaches• Weather and NAS situational awareness	Benefits <ul style="list-style-type: none">• Improved search and rescue• Increased instrument flight rules capacity• FIS-B / TIS-B<ul style="list-style-type: none">– Reduce risk of midair collisions– Reduce risk of weather-related accidents– More efficient routes in adverse weather

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